

INTERACTION POTENTIAL BETWEEN TWO AXIALLY SYMMETRIC NUCLEI

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The simple approach for the evaluation of the interaction potential between two deformed axial-symmetric nuclei is proposed. The potential energy of deformed arbitrary-oriented nuclei is discussed in detail. Properties of entrance-channel potential for fusion reactions $^{22}\text{Ne} + ^{248}\text{Cm}$ and $^{26}\text{Mg} + ^{248}\text{Cm}$ leading to super-heavy elements are considered.